

LOGSHEET FOR FIELD CHANGES TO CONTROLLED DOCUMENTS



ADMIN RECORD

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Final Sampling and Analysis Plan for the Characterization of the 903 Drum Storage Area, 903 Lip Area, and Americium Zone	Document Number: RF/RMRS- 97-084 Revision: 0 Date: March 18, 1998 Page: i of v
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Table 3.2 provide the results of these calculations and the weighting factors per sample will be used to calculate the weighted statistical data. Table 3.3 provides the analytical program for surface soil samples. The results of the HPGe measurements and soil samples will be utilized to establish the correlation between the two methods to estimate $^{239/240}\text{Pu}$ activities at locations where only HPGe measurements are obtained.

Table 3.2 Surface Soil Samples, Weighted Average Calculations

Sample Points Under Consideration (m)		
1	0	0.1
2	1	0.36
3	3	0.54
6	Totals	1.00

Table 3.3 Surface Soil/Asphalt/Artificial Fill - Analytical Program

		Containment		
Radiological Screen	Gross Alpha/Gross Beta	125-ml wide mouth glass or poly jar	None	6 months
Alpha Spectroscopy	Plutonium-239/240, Americium-241, Uranium Isotopes	125-ml wide mouth glass or poly jar	None	6 months

Surface soil sampling locations will be selected based on the HPGe results obtained in the field. Ranges for HPGe concentrations are based on the previous HPGe ^{241}Am activities from the Americium Zone. The first sample will be collected from directly below the HPGe tripod setup location. Sampling will then proceed radially outward in the pattern as shown on Figure 3.2.

Sample locations will be pre-surveyed with the FIDLER and results recorded in the sample collection log or field logbook. Samples will be collected per GT.08, Surface Soil Sampling, Section 4.4, Soil Sampling with the Vertical Soil Profile Method, and specifically section 4.46 Procedures For Coring. The RF soil sampling jig will be utilized as a template to collect the individual soil samples. Soil samples will include all organic mater and coarse grained geologic materials (gravel size fraction or larger). Samples will be prepared in the laboratory by crushing to promote homogeneity and representativeness of the sample prior to alpha spectroscopy analysis. Soil Moisture measurements will be collected from

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